

PCT

Rec'd PCT/PTO 06 OCT 2004

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>LBP28PC00</b>	<b>FOR FURTHER ACTION</b> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, Item 5 below.	
International application No. <b>PCT/EP 03/ 03631</b>	International filing date (day/month/year) <b>08/04/2003</b>	(Earliest) Priority Date (day/month/year) <b>08/04/2002</b>
Applicant <b>LONZA BIOLOGICS PLC.</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 5 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

**4. With regard to the title,**

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

**5. With regard to the abstract,**

☐ the text is approved as submitted by the applicant.

☒ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

**6. The figure of the drawings to be published with the abstract is Figure No.**

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP 03/03631

## Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

A method for culturing cells in the presence of a short chain fatty acid for enhancing protein production

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EU03/03631

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 C12N5/02 C07K16/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 239 292 A (CELLTECH LIMITED) 30 September 1987 (1987-09-30) cited in the application the whole document	1-12
A	US 5 378 612 A (NAKASHISMA K. ET AL.) 3 January 1995 (1995-01-03) cited in the application the whole document	1-12
	----- -/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search

15 October 2003

Date of mailing of the international search report

27/10/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Moreau, J.

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/03631

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>KIM N S ET AL: "Overexpression of bcl-2 inhibits sodium butyrate-induced apoptosis in Chinese hamster ovary cells resulting in enhanced humanized antibody production." BIOTECHNOLOGY AND BIOENGINEERING. 2000-2001, vol. 71, no. 3, 2000, pages 184-193, XP002257847 ISSN: 0006-3592 cited in the application the whole document</p> <p>-----</p>	1-12

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/03631

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0239292	A	30-09-1987	AT 95231 T	15-10-1993
			AU 7126487 A	09-10-1987
			CA 1341367 C	11-06-2002
			DE 3787551 D1	04-11-1993
			DE 3787551 T2	17-02-1994
			EP 0239292 A1	30-09-1987
			ES 2059367 T3	16-11-1994
			WO 8705626 A1	24-09-1987
			GB 2196636 A ,B	05-05-1988
			JP 2525436 B2	21-08-1996
			JP 63503273 T	02-12-1988
			US 2002132299 A1	19-09-2002
			US 5681718 A	28-10-1997
			US 6413746 B1	02-07-2002
			US 6117652 A	12-09-2000
			US 6228618 B1	08-05-2001
US 5378612	A	03-01-1995	JP 2683946 B2	03-12-1997
			JP 4020294 A	23-01-1992
			JP 2696001 B2	14-01-1998
			JP 4316484 A	06-11-1992